CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2015 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ
BSCIC
ISO 9001 REGISTERED

No. : CTCE/BBMP/PMC/DD/2020/14

Date: 15.12.2019

To,
Executive Engineer
Dasarahalli Division,
Bruhat Bangalore Mahanagara Palike
Bangalore.

CERTIFICATE

Reference : EE/DD/WO/391/2019-20 Date: 26.08.2019

Name of work: Improvements to drains and Asphalting to Abbigere area and Shettyhalli area in Ward No.12, Shettyhalli Sub Division (2 Works Package No: DZ 2017-18 (01) (Improvements to roads and asphalting to abbigere area, forest road and Shettyhalli area Raghavendra Layout main road in Ward No. 12, Shettyhalli),Sub Division, BBMP, Bangalore.

This is to certified that the 1st and Part Bill of the above said work has been executed satisfactorily and the quantities of work done has also been certified.

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

15/12/19
Authorized Signature

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 12, ಶೆಟ್ಟಿಹಳ್ಳಿ
ಬೆಂಗಳೂರು.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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Date:15.12.2019

To,
Executive Engineer
Dasarahalli Division,
Bruhat Bangalore Mahanagara Palike
Bangalore.

COMPLIANCE REPORT

Dear Sir,

Reference : EE/DD/WO/391/2019-20 Date: 26.08.2019

Name of work: "Consultancy services for Construction, Supervision, Project Management and Quality Control for 4 Works in Dasarahalli Constituency"

Sub Name of Work:Improvements to drains and Asphalting to Abbigere area and Shettyhalli area in Ward No.12, Shettyhalli Sub Division (2 Works Package No: DZ 2017-18 (01) (Improvements to roads and asphalting to abbigere area, forest road and Shettyhalli area Raghavendra Layout main road in Ward No. 12, Shettyhalli),Sub Division, BBMP,Bangalore.

With respect to the above subject & name of the work, we have supervised the work and the quantity and quality of below mentioned items of the work was found to be completed satisfactorily for the **1st and Part Bill.**

Sl. No	Description of Work	Unit	Qty
2	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means inculding cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportion with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301 loading and unloading with 10km lead (I No-19.14, P No-143)	Cum	5362.56
3	KSRRB 300-58.Compaction of orginal ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of Machinery Complete as per specifications. MORTH/Chapter Page No.149 item.No.19.64 of KPWD S.R 2016-17	Sqm	1052.9
5	Construction of **granular sub-base Grading -V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basait material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifcations clause 401 of MORTH V Revision (I No-20.5, P No-153)	Cum	1760.38
6	KSRRB M400 - 17: Providing, laying, spreading and compacting crushed stones aggregate of granite /trap/basalt to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications (P.No-155, I.No-20.18)	Cum	1408.3

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Sl. No	Description of Work	Unit	Qty
7	KSRRB M500-6. Providing and applying **primer coat** with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications MORTH Specification No.502 (Page.no161, I No-21.6 of KPWD S.R.2016-17)	Sqm	7041.5
8	KSRRB 500-2. Cleaning the existing black topped surface with brooms and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (Page No.161, 21.2 of KPWD SR 2016-17)	Sqm	10222.8
9	KSRRB M500-7: Providing and applying Tack coat using 80/100 grade bitumen (VG 10) on the prepared black topped surfaces at 2.5kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) inculding cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 (Page No.161, 21.7 of KPWD SR 2016-17)	Sqm	36634.40
10	KSRRB M500-11. Providing and laying bituminous Macadam on prepared surface with crushed coarse aggregates as per design mix for base/binding course including loading of aggregates with F E Loader, hot mixing of stone aggregates and bitumen in hot mixplant, 40 tonne capacity transporting the mixed material in tipper to paver and laying mixed materials paver finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer/tack coat including lead, lift and cost of all materials, labour, HOM of machineries complete as per specifications. using TPH capacity HMP with sensor paver Gr-II (50 mm to 75 mm) with 3.3 % VG-30 Bitumen(Page No.162, Item No.21.11.5 of KPWD S.R 2016-17)	Cum	979.48
11	KSRRB M500-19. Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment,rolling with smooth wheeled,vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 507 of MORTH V revision using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm) with 5.4% VG-30 Bitumen (P.No-162, I.No-21.22.6)	Cum	732.68
12	Add Plastic to Bituminous Concrete 8% of Bitumen	Kgs	8264.72
13	KSRRB M 800-13: **Road marking with Hot Applied Thermoplastic Compound** with reflectorising glass beads on bituminous /concrete surface: Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms per sqm area,thickness of 2.5mm is exclusive of surface applied glass beads as per IRC 35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 (P.No-182, I.No-24.15)	Sqm	1225.81
17	Lead charges for conveying the excavated earth inculding loading and unloading upto 10kms as per directions (Page No.140 SL.No.5 of KPWD S.R2016-17)	Cum	3169.74

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Sl. No	Description of Work	Unit	Qty
E.I	Stone Dust/grit 4.75mm to 0.075 mm KSRRB M100-1 Loading and unloading of stone boulder / stone aggregates/sand/kanker/Moorum. KPWD SR2016-17 Page No.140	Cum	810.00

Thanking you,

With Regards,

For Civil-Tech Consultants and Engineers

15/12/15

Authorized Signature

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳ

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